

Full D Band, X2 Passive Multiplier



Description:

AT-PM2-110170T is a D Band, passive frequency multiplier. The multiplier has an input frequency of 55-85 GHz with a typical output 0dBm from 110-170GHz when Pin=+16dBm.

The multiplier also has a typical harmonic suppression. The input port is WR-12, and the output is WR-06.

AT-AM4-5590-18T can be used as a driver for this passive module.

More information, please visit www.atmicrowave.com

Feature

- ✓ Frequency: 110-170GHz
- ✓ Pout: +3dBm typical
- ✓ Input: 55-85GHz
- ✓ Low Harmonics

Application

- ✓ D Band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Electronical Specifications:

Parameter	Min	Typical	Max
Input Frequency	55GHz		85GHz
Input Power	+14dBm	+16dBm	+20dBm
Multiplier Factor		X2	
Output Frequency	110GHz		170GHz
Conversion Loss		110-165GHz: -13dB 165-170GHz: -16dB	-16dB -19dB
Pout at Pin=+16dBm		+3dBm	
Harmonic Suppression		-20dBc	
Drain Voltage		NO	
Spec Temp		25C	





AT-PM2-110170T

Passive Multiplier x2, 110-170GHz

Mechanical Information

Item	Description
Input Port	WR-12
Output Port	WR-06
Case Material	Copper
Finish	Gold Plated
Weight	65g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
RF Input Power	+22dBm
Operating Temperature	0 to +50C
Storage Temperature	-65 to +170C

Notes:

- ✓ Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
- ✓ This data is only for reference, not for guaranteed specifications.
- ✓ Please contact AT Microwave team to make sure you have the most current data.
- ✓ Always pay attention to the temperature of the case, heatsink and fan are required if case temperature exceeds over 50C.

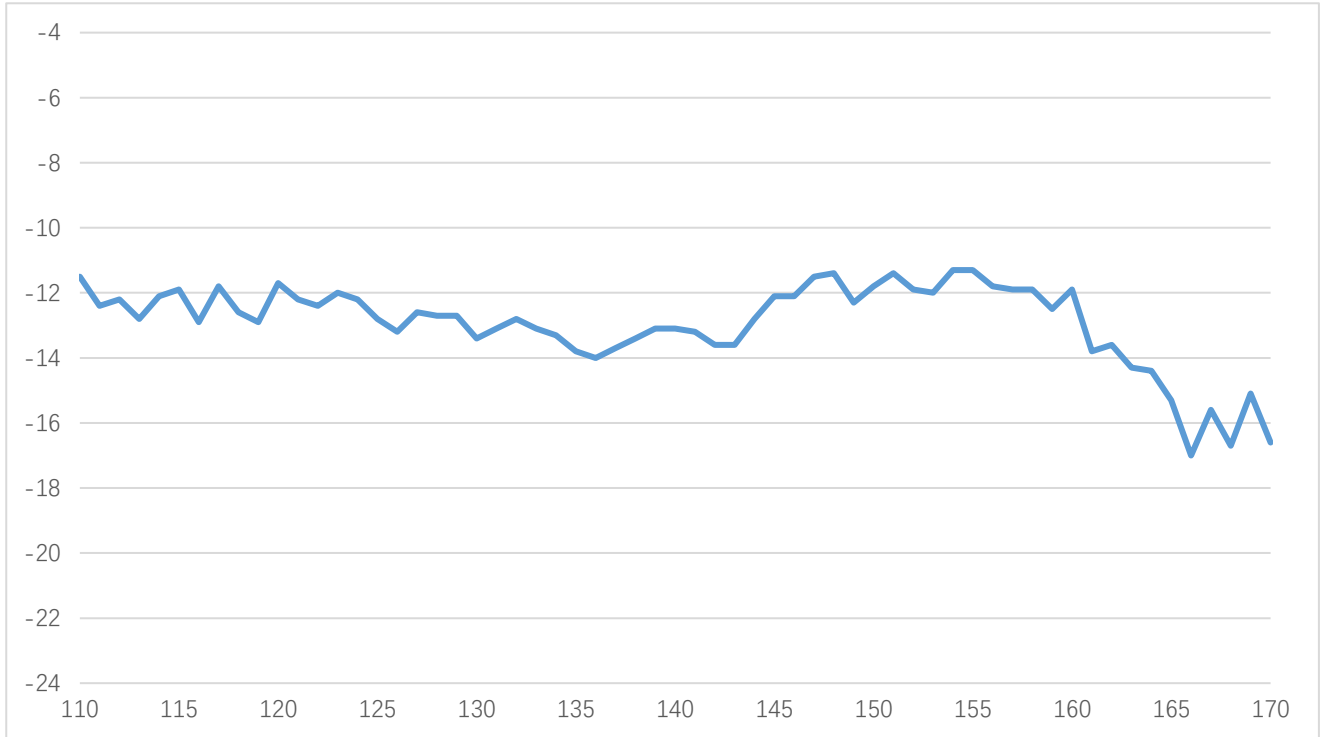




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Test Data:



Conversion Loss vs Frequency



Dimension(mm)

